

What is claimed is:

1. A close contact type sensor arranged with a plurality of unit pixels each comprising a sensor circuit portion and a plurality of irradiation window portions.

2. A scanner using the close contact type sensor according to claim 1.

3. A portable information terminal using the close contact type sensor according to claim 1.

4. A close contact type sensor arranged with a plurality of unit pixels each comprising a sensor circuit portion and a plurality of irradiation window portions, said close contact type sensor comprising:

an optical fiber plate between the sensor circuit portion and a reading object;

wherein an area of any of the plurality of irradiation window portions is larger than an area of a half of a section of a single piece of an optical fiber in the optical fiber plate.

5. A scanner using the close contact type sensor according to claim 4.

6. A portable information terminal using the close contact type

sensor according to claim 3.

7. A close contact type sensor arranged with a plurality of unit pixels each comprising a sensor circuit portion and a plurality of irradiation window portions, said close contact type sensor comprising:

    a liquid crystal display; and

    a backlight;

    wherein the liquid crystal display is arranged below the backlight, the sensor circuit portion and the plurality of irradiation window portions are arranged below the liquid crystal display and the plurality of irradiation window portions are arranged on inner sides of opening portions of the liquid crystal display.

8. A scanner using the close contact type sensor according to claim 7.

9. A portable information terminal using the close contact type sensor according to claim 7.

10. A close contact type sensor arranged with a plurality of unit pixels each comprising a sensor circuit portion and a plurality of irradiation window portions, said close contact type sensor comprising:

a liquid crystal display;

a backlight; and

an optical fiber plate;

wherein the liquid crystal display is arranged below the backlight, the sensor circuit portion and the plurality of irradiation window portions are arranged below the liquid crystal display, the optical fiber plate is arranged below the sensor circuit portion and the plurality of irradiation window portions and the plurality of irradiation window portions are arranged on inner sides of opening portions of the liquid crystal display.

11. A scanner using the close contact type sensor according to claim 10.

12. A portable information terminal using the close contact type sensor according to claim 10.

13. A close contact type sensor arranged with a plurality of pixels each comprising a sensor circuit portion and a plurality of irradiation window portions, said close contact type sensor comprising:

a liquid crystal display; and

a backlight;

wherein in the liquid crystal display, a single piece of

a unit pixel is constituted by one pixel for red, one pixel for green and one pixel for blue, the liquid crystal display is arranged below the backlight, the sensor circuit portion and the plurality of irradiation window portions are arranged below the liquid crystal display and a size of the unit pixel of the liquid crystal display is a size of the unit pixel of the close contact type sensor multiplied by an integer or a factor of an integer thereof.

14. A scanner using the close contact type sensor according to claim 13.

15. A portable information terminal using the close contact type sensor according to claim 13.

16. A close contact type sensor arranged with a plurality of unit pixels each comprising a sensor circuit portion and a plurality of irradiation window portions, said close contact type sensor comprising:

a liquid crystal display;

a backlight; and

an optical fiber plate;

wherein in the liquid crystal display, a single piece of a unit pixel is constituted by one pixel for red, one pixel for green and one pixel for blue, the liquid crystal display

is arranged blow the backlight, the sensor circuit portion and the plurality of irradiation window portions are arranged below the liquid crystal display, the optical fiber plate is arranged below the sensor circuit portion and the plurality of irradiation window portions and a size of the unit pixel of the liquid crystal display is a size of the unit pixel of the close contact type sensor multiplied by an integer or a factor of an integer thereof.

17. A scanner using the close contact type sensor according to claim 16.

18. A portable information terminal using the close contact type sensor according to claim 16.

19. A close contact type sensor arranged with a plurality of unit pixels each comprising a sensor circuit portion and a plurality of irradiation window portions, said close contact type sensor comprising:

a liquid crystal display; and

a backlight;

wherein in the liquid crystal display, a single piece of a unit pixel is constituted by one pixel for red, one pixel for green and one pixel for blue, the liquid crystal display is arranged blow the backlight, the sensor circuit portion and the plurality of irradiation window portions are arranged below

the liquid crystal display, and light of the backlight successively transmits through the pixel for red, the pixel for green and the pixel for blue of the liquid crystal display at every respective subframe period.

20. A scanner using the close contact type sensor according to claim 19.

21. A portable information terminal using the close contact type sensor according to claim 19.

22. A close contact type sensor arranged with a plurality of unit pixels each comprising a sensor circuit portion and a plurality of irradiation window portions, said close contact type sensor comprising:

a liquid crystal display;

a backlight; and

an optical fiber plate;

wherein in the liquid crystal display, a single piece of a unit pixel is constituted by one pixel for red, one pixel for green and one pixel for blue, the liquid crystal display is arranged blow the backlight, the sensor circuit portion and the plurality of irradiation window portions are arranged below the liquid crystal display, the optical fiber plate is arranged below the sensor circuit portion and the plurality of irradiation

window portions and light of the backlight successively transmits through the pixel for red, the pixel for green and the pixel for blue of the liquid crystal display at every subframe period.

23. A scanner using the close contact type sensor according to claim 22.

24. A portable information terminal using the close contact type sensor according to claim 22.